

CLAIMS

What is claimed is:

1. A wire cloth, comprising metallic warp wires and metallic weft wires interwoven with one another, wherein the weft wires have each a diameter which is equal or smaller than a clear distance between two neighboring warp wires, and wherein the weft wires are constricted in crossing regions with the warp wires.
2. The wire cloth of claim 1, wherein the weft wires are constricted in the crossing regions to or approximately to a clear distance measure of the warp wires.
3. The wire cloth of claim 1, wherein the weft wires have each a diameter in the range from 1/100 mm to 1/10 mm.
4. The wire cloth of claim 1, wherein the weft wires are constricted in the crossing regions with the warp wires by 10 % of their original diameter.
5. The wire cloth of claim 1, wherein the warp wires have a diameter which is greater than a diameter of the weft wires so as to provide a filter cloth.

6. The wire cloth of claim 1, wherein the diameter of the warp wires ranges between 0.03 mm to 0.125 mm.
7. The wire cloth of claim 1, wherein the diameter of the weft wires ranges between 0.02 mm to 0.1 mm.
8. The wire cloth of claim 1, wherein the warp wires have a mesh count between 180 to 500 wires per inch.
9. The wire cloth of claim 1, wherein the weft wires have a mesh count between 500 to 5000 wires per inch.
10. The wire cloth of claim 1, wherein the warp wires and the weft wires are interconnected at the crossing regions through a heat treatment process.
11. The wire cloth of claim 10, wherein the heat treatment includes a sintering process.